

## SEQUENCE LISTING

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<160> 34

<170> PatentIn version 3.1

<210> 1

<211> 117

<212> PRT

<213> Mus musculus

<400> 1

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg Pro Gly Ala

1

5

10

15

Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Ser

20

25

30

Tyr Met Asn Trp Val Lys Gln Arg Thr Gly Gln Gly Leu Glu Trp Ile

35

40

45

Gly Glu Val Tyr Pro Glu Thr Gly Asn Ser Tyr Tyr Asn Glu Lys Phe

50

55

60

Lys Gly Lys Ala Thr Leu Thr Ala Asp Arg Ser Ser Lys Thr Ala Tyr

65

70

75

80

Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Phe Cys

85

90

95

Thr Arg Gly Gly Thr Gly Phe Asp Tyr Trp Gly Gln Gly Thr Thr Leu

100

105

110

Thr Val Ser Ser Ala

115

&lt;210&gt; 2

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 2

Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala

1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Ser Ser

20 25 30

Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile

35 40 45

Gly Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe

50 55 60

Arg Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser Thr Ala Tyr

65 70 75 80

Met Gln Leu Thr Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys

85 90 95

Ala Arg Trp Gly Ile Thr Thr Ala Ala Trp Phe Ala Tyr Trp Gly Gln

100 105 110

Gly Thr Leu Val Thr Val Ser Ala Ala

115 120

&lt;210&gt; 3

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 3

Gln Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Glu Lys Pro Gly Glu

1

5

10

15

Thr Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr

20

25

30

Ser Leu His Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Met

35

40

45

Gly Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Leu

50

55

60

Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Thr Thr Ala Tyr

65

70

75

80

Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys

85

90

95

Ala Arg Gly Ile Thr Leu Asp Tyr Trp Gly Gln Gly Thr Ser Leu Thr

100

105

110

Val Ser Ser Ala

115

<210> 4

<211> 121

<212> PRT

<213> Mus musculus

<400> 4

Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Val Val Lys Pro Gly Ala

1

5

10

15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ala Phe Ser Arg Ser

20

25

30

Trp Met Asn Trp Val Lys Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile

35

40

45

Gly Arg Ile Tyr Pro Gly Asp Gly Asp Ser Ile Tyr Asn Gly Lys Phe

50

55

60

6/25

Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr Thr Ala Tyr

65

70

75

80

Met His Leu Asn Ser Leu Thr Ser Val Asp Ser Ala Val Tyr Phe Cys

85

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95

Ala Arg Trp Gly Ser Ser Gly Ser Ser Trp Phe Ala Tyr Trp Gly Gln

100

105

110

Gly Thr Leu Val Thr Val Ser Ala Ala

115

120

<210> 5

<211> 108

<212> PRT

<213> Mus musculus

<400> 5

Gln Ile Val Leu Ala Gln Ser Pro Ala Ile Met Ser Ala Ser Leu Gly

1

5

10

15

Glu Arg Val Thr Met Thr Cys Thr Ala Ser Ser Ser Val Ser Ser Ser

20

25

30

7/25

Tyr Leu His Trp Tyr Gln Gln Lys Pro Gly Ser Ser Pro Lys Ala Trp

35

40

45

Ile Tyr Ser Thr Ser Asn Leu Ala Ser Gly Ala Pro Thr Arg Phe Ser

50

55

60

Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu

65

70

75

80

Ala Glu Asp Ala Ala Thr Tyr Tyr Cys His Gln Tyr His Arg Ser Pro

85

90

95

Phe Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys

100

105

<210> 6

<211> 107

<212> PRT

<213> Mus musculus

<400> 6

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val Gly

1

5

10

15

8/25

Glu Thr Val Thr Ile Thr Cys Arg Thr Ser Glu Asn Ile Tyr Ser Tyr

20

25

30

Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val

35

40

45

Asn Asn Ala Lys Thr Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly

50

55

60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Lys Ile Asn Ser Leu Gln Pro

65

70

75

80

Glu Asp Phe Gly Thr Tyr Tyr Cys Gln His Tyr Tyr Gly Thr Pro Pro

85

90

95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100

105

<210> 7

<211> 113

<212> PRT

<213> Mus musculus

<400> 7



9/25

Asp Asn Val Met Ser Gln Ser Pro Ser Ser Leu Ala Val Ser Val Gly

1 5 10 15

Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Leu Leu Ser Ser

20 25 30

Ser Asn Gln Lys Asn Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln

35 40 45

Ser Pro Lys Leu Leu Ile Ser Trp Ala Ser Thr Arg His Ser Gly Val

50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr

65 70 75 80

Ile Ser Ser Val Asn Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Gln

85 90 95

Tyr Tyr Arg Tyr Pro Leu Thr Phe Gly Ala Gly Thr Lys Leu Glu Leu

100 105 110

Lys

10/25

<211> 107

<212> PRT

<213> Mus musculus

<400> 8

Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Met Gly

1 5 10 15

Glu Thr Val Thr Ile Thr Cys Arg Thr Ser Glu Asn Ile Tyr Ser Tyr

20 25 30

Leu Ala Trp Tyr Arg Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val

35 40 45

Tyr Asn Ala Lys Thr Leu Ala Glu Gly Val Pro Ser Arg Phe Ser Gly

50 55 60

Ser Gly Ser Gly Thr Gln Phe Ser Leu Arg Ile Asn Ser Leu Gln Pro

65 70 75 80

Glu Asp Phe Gly Ser Tyr Phe Cys Gln His Tyr Tyr Gly Ser Pro Tyr

85 90 95

Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

100 105

11/25

<210> 9

<211> 5

<212> PRT

<213> Mus musculus

<400> 9

Asp Ser Tyr Met Asn

1 5

<210> 10

<211> 17

<212> PRT

<213> Mus musculus

<400> 10

Glu Val Tyr Pro Glu Thr Gly Asn Ser Tyr Tyr Asn Glu Lys Phe Lys

1 5 10 15

Gly

<210> 11

<211> 7

<212> PRT

<213> Mus musculus

<400> 11

Gly Gly Thr Gly Phe Asp Tyr

1 5

<210> 12

<211> 5

<212> PRT

<213> Mus musculus

<400> 12

Ser Ser Trp Met Asn

1 5

<210> 13

<211> 17

<212> PRT

<213> Mus musculus

<400> 13

Arg Ile Tyr Pro Gly Asp Gly Asp Thr Asn Tyr Asn Gly Lys Phe Arg

1 5 10 15

Gly

<210> 14

<211> 11

<212> PRT

<213> Mus musculus

<400> 14

Trp Gly Ile Thr Thr Ala Ala Trp Phe Ala Tyr

1 5 10

<210> 15

<211> 5

<212> PRT

<213> Mus musculus

<400> 15

Asp Tyr Ser Leu His

1 5

<210> 16

<211> 17

<212> PRT

<213> Mus musculus

<400> 16

Trp Ile Asn Thr Glu Thr Gly Glu Pro Thr Tyr Ala Asp Asp Leu Lys

1 5 10 15

Gly

<210> 17

<211> 6

<212> PRT

<213> Mus musculus

<400> 17

Gly Ile Thr Leu Asp Tyr

1 5

<210> 18

<211> 5

<212> PRT

<213> Mus musculus

<400> 18

Arg Ser Trp Met Asn

1 5

<210> 19

<211> 17

<212> PRT

<213> Mus musculus

<400> 19

Arg Ile Tyr Pro Gly Asp Gly Asp Ser Ile Tyr Asn Gly Lys Phe Lys

1 5 10 15

Gly

<210> 20

<211> 11

<212> PRT

<213> Mus musculus

<400> 20

Trp Gly Ser Ser Gly Ser Ser Trp Phe Ala Tyr

1                      5                      10

<210> 21

<211> 12

<212> PRT

<213> Mus musculus

<400> 21

Thr Ala Ser Ser Ser Val Ser Ser Ser Tyr Leu His

1                      5                      10



<210> 22

<211> 11

<212> PRT

<213> Mus musculus

<400> 22

Ser Thr Ser Asn Leu Ala Ser Gly Ala Pro Thr

1 5 10

<210> 23

<211> 7

<212> PRT

<213> Mus musculus

<400> 23

Tyr His Arg Ser Pro Phe Thr

1 5

<210> 24

<211> 11

<212> PRT

<213> Mus musculus

<400> 24

Arg Thr Ser Glu Asn Ile Tyr Ser Tyr Leu Ala

1 5 10

<210> 25

<211> 11

<212> PRT

<213> Mus musculus

<400> 25

Asn Ala Lys Thr Leu Ala Glu Gly Val Pro Ser

1 5 10

<210> 26

<211> 7

<212> PRT

<213> Mus musculus

<400> 26

Tyr Tyr Gly Thr Pro Pro Thr

1 5

<210> 27

<211> 17

<212> PRT

<213> Mus musculus

<400> 27

Lys Ser Ser Gln Ser Leu Leu Ser Ser Ser Asn Gln Lys Asn Phe Leu

1 5 10 15

Ala

<210> 28

<211> 12

<212> PRT

<213> Mus musculus

<400> 28

Ser Trp Ala Ser Thr Arg His Ser Gly Val Pro Asp

1 5 10

<210> 29

<211> 7

<212> PRT

<213> Mus musculus

<400> 29

Tyr Tyr Arg Tyr Pro Leu Thr

1 5

<210> 30

<211> 7

<212> PRT

<213> Mus musculus

<400> 30

Tyr Tyr Gly Ser Pro Tyr Thr

1 5

<210> 31

<211> 5

<212> PRT

<213> Artificial

<220>

<223> heavy chain CDR1

<220>

<221> MISC\_FEATURE

<222> (1).. (1)

<223> "Xaa" at location 1 stands for Ser or Arg

<400> 31

Xaa Ser Trp Met Asn

1 5

<210> 32

<211> 17

<212> PRT

<213> Artificial

<220>

<223> heavy chain CDR2

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (9).. (9)

&lt;223&gt; "Xaa" at location 9 stands for Thr or Ser

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (10).. (10)

&lt;223&gt; "Xaa" at location 10 stands for Asn or Ile

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (16).. (16)

&lt;223&gt; "Xaa" at location 16 stands for Arg or Lys

&lt;400&gt; 32

Arg Ile Tyr Pro Gly Asp Gly Asp Xaa Xaa Tyr Asn Gly Lys Phe Xaa

1

5

10

15

Gly

&lt;210&gt; 33

<211> 11

<212> PRT

<213> Artificial

<220>

<223> heavy chain CDR3

<220>

<221> MISC\_FEATURE

<222> (3).. (3)

<223> "Xaa" at location 3 stands for Ile or Ser

<220>

<221> MISC\_FEATURE

<222> (4).. (4)

<223> "Xaa" at location 4 stands for Thr or Ser

<220>

<221> MISC\_FEATURE

<222> (5).. (5)

<223> "Xaa" at location 5 stands for Thr or Gly

<220>

<221> MISC\_FEATURE

<222> (6).. (6)

<223> "Xaa" at location 6 stands for Ala or Ser

<220>

<221> MISC\_FEATURE

<222> (7)..(7)

<223> "Xaa" at location 7 stands for Ala or Ser

<400> 33

Trp Gly Xaa Xaa Xaa Xaa Xaa Trp Phe Ala Tyr

1

5

10

<210> 34

<211> 7

<212> PRT

<213> Artificial

<220>

<223> light chain CDR3

<220>

<221> MISC\_FEATURE

<222> (4)..(4)

<223> "Xaa" at location 4 stands for Thr or Ser

<220>



<221> MISC\_FEATURE

<222> (6)..(6)

<223> "Xaa" at location 6 stands for Pro or Tyr

<400> 34

Tyr Tyr Gly Xaa Pro Xaa Thr

1

5